

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR XE 8K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
<b>SENSOR SPECS</b>					
<b>SENSOR READOUT</b>	GLOBAL SHUTTER				
<b>SENSOR TYPE</b>	KOMODO® 19.9 MP Super 35 mm Global Shutter, CMOS	KOMODO-X® 19.9 MP Super 35 mm Global Shutter CMOS	V-RAPTOR® XE 8K VV 35.4MP Global Shutter CMOS	V-RAPTOR® [X] 8K VV 35.4MP Global Shutter CMOS	
<b>SENSOR SIZE</b>	6144 x 3240   27.03 mm x 14.26 mm (Diagonal: 30.56mm)			8192 x 4320   40.96 mm x 21.60 mm (Diagonal: 46.31 mm)	
<b>DYNAMIC RANGE</b>	16+ stops	16.5+ stops	17+ stops		
<b>KEY FEATURES</b>					
<b>RED GLOBAL VISION</b>	Not Available			Extended Highlights capability to capture more detail and color in extreme dynamic range scenarios. Phantom Track recording mode to capture multiple LED instances as dedicated clips.	
<b>RED CONNECT</b>	Compatible with USB-C 250MB/s RED Connect for live R3D video over IP			Compatible with the RED Connect and Cine-Broadcast Module for live 8K R3D video over IP or live 4K over SMPTE ST 2110	
<b>ND FILTER</b>	RED PL Adapter w/ Electronic ND Filter Pack Available				Integrated electronic ND system featuring motorized clear filter and precision controlled electronic ND filter. Electronic ND minimum density 2 stops, maximum density 7 stops; Electronic ND selectable increments of 1/3 stops, 1/4 stops, and 1 stop
<b>MOUNT TYPE</b>	RF mount with electronic communication Accepts Canon RF mount-based lens adapters for diverse lens choices Supports Canon EF with full electronic communication using compatible Canon RF mount adapters <sup>1</sup>	Integrated locking Nikon Z Mount or Canon RF Mount with electronic communication Supports /i PL lenses with RED PL Adapters Support for other adapters based on the Nikon Z Mount or Canon RF Mount			Interchangeable Lens Mount Included V-RAPTOR XL PL Mount with /i Support Supports V-RAPTOR XL Locking Canon EF Mount Accepts DSMC Lens Mounts, but does not provide electronic communication or control.
<b>RECORDING</b>					
<b>MAX DATA RATES</b>	Up to 280 MB/s using RED Pro Cfast and qualified CFast 2.0 memory cards <sup>1</sup>	Up to 560 MB/s using RED branded or other qualified CFexpress media cards <sup>1</sup>	Up to 800 MB/s using RED branded or other qualified CFexpress media cards <sup>1</sup>		
<b>REDCODE® RAW MAX FRAME RATES</b>	40 fps at 6K 17:9 (6144 x 3240) 48 fps at 5K 17:9 (5120 x 2700) 60 fps at 4K 17:9 (4096 x 2160) 120 fps at 2K 17:9 (2048 x 1080)	80 fps at 6K 17:9 (6144 x 3240) 96 fps at 5K 17:9 (5120 x 2700) 120 fps at 4K 17:9 (4096 x 2160) 240 fps at 2K 17:9 (2048 x 1080)	80 fps at 8K 17:9 (8192 x 4320), 75 fps at 8K 2.4:1 (8192 x 3456) 70 fps at 7K 17:9 (7168 x 3780), 87 fps at 7K 2.4:1 (7168 x 3024) 80 fps at 6K 17:9 (6144 x 3240), 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K 17:9 (5120 x 2700), 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K 17:9 (4096 x 2160), 150 fps at 4K 2.4:1 (4096 x 1728) 160 fps at 3K 17:9 (3072 x 1620), 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K 17:9 (2048 x 1080), 300 fps at 2K 2.4:1 (2048 x 864)	120 fps at 8K 17:9 (8192 x 4320), 150 fps at 8K 2.4:1 (8192 x 3456) 140 fps at 7K 17:9 (7168 x 3780), 175 fps at 7K 2.4:1 (7168 x 3024) 160 fps at 6K 17:9 (6144 x 3240), 200 fps at 6K 2.4:1 (6144 x 2592) 192 fps at 5K 17:9 (5120 x 2700), 240 fps at 5K 2.4:1 (5120 x 2160) 240 fps at 4K 17:9 (4096 x 2160), 300 fps at 4K 2.4:1 (4096 x 1728) 320 fps at 3K 17:9 (3072 x 1620), 400 fps at 3K 2.4:1 (3072 x 1296) 480 fps at 2K 17:9 (2048 x 1080), 600 fps at 2K 2.4:1 (2048 x 864)	
<b>PLAYBACK FRAME RATES (PROJECT TIME BASE)</b>	23.98, 24, 25, 29.97, 30, 50, 59.94, 60 fps, all resolutions				
<b>BEST AVAILABLE REDCODE® SETTINGS</b>	REDCODE HQ, MO, LO, and ELO at 6K 17:9 (6144 x 3240) up to 40 fps REDCODE HQ, MO, LO, and ELO at 4K 17:9 (4096 x 2160) up to 60 fps REDCODE HQ, MO, LO, and ELO at 2K 17:9 (2048 x 1080) up to 120 fps	REDCODE HQ, MO, LO, and ELO at 6K 17:9 (6144 x 3240) up to 80 fps REDCODE HQ, MO, LO, and ELO at 4K 17:9 (4096 x 2160) up to 120 fps REDCODE HQ, MO, LO, and ELO at 2K 17:9 (2048 x 1080) up to 240 fps	REDCODE HQ, MO, LO, and ELO at 8K 17:9 (8192 x 4320) up to 60 fps REDCODE HQ, MO, LO, and ELO at 6K 17:9 (6144 x 3240) up to 80 fps REDCODE HQ, MO, LO, and ELO at 4K 17:9 (4096 x 2160) up to 120 fps REDCODE HQ, MO, LO, and ELO at 2K 17:9 (2048 x 1080) up to 240 fps	REDCODE HQ, MO, LO and ELO at 8K 17:9 (8192 x 4320) up to 60 fps REDCODE HQ, MO, LO and ELO at 6K 17:9 (6144 x 3240) up to 120 fps REDCODE HQ, MO, LO, and ELO at 6K 17:9 (6144 x 3240) up to 96 fps REDCODE HQ, MO, LO and ELO at 6K 17:9 (6144 x 3240) up to 180 fps REDCODE HQ, MO, LO, and ELO at 4K 17:9 (4096 x 2160) up to 240 fps REDCODE HQ, MO, LO, and ELO at 2K 17:9 (2048 x 1080) up to 480 fps	
<b>REDCODE® RAW ACQUISITION FORMATS</b>	6K 17:9 (6144 x 3240), 2:1, 2.4:1, 16:9 and Anamorphic 2x, 1.8x, 1.6x, 1.5x, 1.3x, 1.25x 5K 17:9 (5120 x 2700) 4K 17:9 (4096 x 2160) and 16:9 2K 17:9 (2048 x 1080)	8K 17:9 (8192 x 4320), 2:1, 2.4:1, 16:9, 1:1 and Anamorphic 2x, 1.8x, 1.6x, 1.5x, 1.3x, 1.25x 7K 17:9 (7168 x 3780), 2:1, 2.4:1, 16:9, 1:1 and Anamorphic 2x, 1.8x, 1.6x 6K 17:9 (6144 x 3240), 2:1, 2.4:1, 16:9, 1:1 and Anamorphic 1.5x, 1.3x, 1.25x 5K 17:9 (5120 x 2700), 2:1, 2.4:1, 16:9, 1:1 4K 17:9 (4096 x 2160), 2:1, 2.4:1, 16:9, 1:1 3K 17:9 (3072 x 1620), 2:1, 2.4:1, 16:9, 1:1 2K 17:9 (2048 x 1080), 2:1, 2.4:1, 16:9, 1:1			
<b>Apple ProRes</b>	Dedicated recording in 4K (4096 x 2160) ProRes 422 HQ and ProRes 422 up to 60 fps, and 2K (2048 x 1080) at ProRes 422 HQ and ProRes 422 up to 120 fps	Dedicated recording in 4K (4096 x 2160) ProRes 4444 XQ up to 60 fps, ProRes 4444 up to 80 fps, and ProRes 422 HQ, ProRes 422, and ProRes 422 LT up to 120 fps	Dedicated 2K and 4K recording in ProRes 4444 XQ, ProRes 4444, ProRes 422 HQ, ProRes 422, and ProRes 422 LT up to 120 fps in select formats. Simultaneous Proxy recording available in ProRes Proxy to ProRes 422 HQ in 2K (2048 x 1080) up to 60 fps.		
<b>GENERAL</b>					
<b>CONSTRUCTION</b>	Aluminum Alloy				
<b>MAX. DIMENSIONS</b>	103 x 111 x 95 mm / 4 x 4.5 x 3.75 in	129 x 101 x 95 mm / 5 x 4 x 3.75 in	150 x 116 x 108 mm / 5.9 x 4.5 x 4.3 in	191 x 166 x 150 mm / 7.5 x 6.5 x 5.9 in	
<b>WEIGHT</b>	2.10 lbs (without body cap and CFast card)	2.62 lbs (without body cap and CFexpress card)	4.03 lbs (without body cap and CFexpress card)	7.99 lbs (with PL Mount, V-Lock) 8.08 lbs (with PL Mount, Gold Mount)	
<b>MEDIA TYPE</b>	CFast 2.0		CFexpress Type B		
<b>BATTERY TYPE</b>	Two slots for REDVOLT BP batteries <sup>1</sup>	Integrated V-Lock battery interface optimized for Micro V-Lock Batteries	Integrated V-Lock battery interface optimized for Micro V-Lock Batteries <sup>1</sup>	Integrated Dual Voltage 14/26V V-Lock or Gold Mount Battery Interface	
<b>DC POWER INPUT</b>	7-17 V DC via 2-pin DC-IN port		11-17 V via 6-pin DC-IN	19.5-34 V via 4-Pin DC-IN	
<b>FEATURES</b>					
<b>COLOR MANAGEMENT</b>	Image Processing Pipeline 2 (IPP2) Supports multiple simultaneous 3x3x3x3x3 3D LUT viewing Supports multiple simultaneous CDL viewing and adjustment				
<b>AUDIO</b>	Integrated dual channel digital stereo microphones, uncompressed, 24-bit 48 kHz Additional dual channel via integrated 3.5mm audio jack, uncompressed, 24-bit 48 kHz 3.5mm stereo headphone port	Integrated dual channel digital mono microphones, uncompressed, 24-bit 48 kHz Integrated dual channel (mic/line/+48V) input via 5-Pin 00B Audio Port, uncompressed, 24-bit 48 kHz 3.5mm stereo headphone port			
<b>AUTOFOCUS</b>	Sensor-based Phase Detect	Sensor-based Phase Detect with Face Detection			
<b>REMOTE CONTROL</b>	Wi-Fi for camera control via interchangeable dual band (2.4 GHz/5 GHz) antenna mounted to a female RP-SMA connector Wired control via USB-C (compatible adapters required <sup>1</sup> ) allowing remote camera control, live MJPEG preview video feed and remote media offload Genlock, Timecode-in, GPIO and Ctrl (RS-232) via the integrated 9-pin EXT Port				Wi-Fi for camera control via interchangeable dual band (2.4 GHz/5 GHz) antenna mounted to a female RP-SMA connector Wired control via USB-C (compatible USB-C to Ethernet adapter required <sup>1</sup> ) or integrated Gigabit Ethernet allowing remote camera control, live MJPEG preview video feed and remote media offload 9-Pin 0B GIG-E (1000BASE-T) 4-Pin 00B CTRL (RS-232)
<b>POWER OUTPUTS</b>	Power output options available via compatible accessories <sup>1</sup>				Regulated 12 V Outputs <sup>2</sup> 2x P-TAP Connectors (3AMP Combined) 1x Rear 2-Pin 0B (3 AMP) 1x Rear 2-Pin 0B (1.5 AMP) 1x Front 2-Pin 0B (1 AMP) Regulated 24 V Connectors <sup>2</sup> 2x Front 3-Pin Fischer (3 AMP Combined)
<b>MONITOR OUTPUTS</b>	Integrated 12G-SDI with 6G-SDI and 3G-SDI modes Integrated 2.9" 1440x1440 touchscreen LCD with preview and camera control SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	Proprietary Top Accessory Port for LCD or EVF with Control Integrated 2.9" 1440x1440 touchscreen LCD with preview and camera control Integrated 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	Proprietary Top Accessory Port for LCD or EVF with Control Integrated dual 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	Proprietary Top Accessory Port for LCD or EVF with Control 3x 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes (SDI 1/2/3) 1x 3G-SDI with 3G-SDI and 1.5G-SDI modes (EVF) SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	
<b>ADDITIONAL I/O</b>	Tri-Level Genlock through 9-Pin EXT Port Linear Timecode (LTC) through 9-Pin EXT Port GPIO through 9-Pin EXT Port				Tri-Level Genlock through BNC Linear Timecode (LTC) through 5-Pin 0B PTP (2059-2) through 9-Pin 0B GIG-E Wireless Genlock and Timecode through Integrated Ambient Communication Network (ACN)

SOFTWARE

RED CONTROL

RED Control: Access full camera controls and live preview from iOS or Android devices.  
RED Control Pro: Operate one or multiple Cameras over an IP connection to synchronize settings, manage media files locally or upload directly to FrameIO, develop custom looks with advanced CDL and LUT controls, and more. Ideal for control of multi-camera arrays, multi-cam shoots, and live events, all from one central location.  
RED Control Pro available via Apple App store only and requires additional purchase.

Tech specs reflect both current and projected information. Everything is subject to change.  
1. For more information on compatible accessories, go to [RED.com/third-party-accessories](http://RED.com/third-party-accessories)  
2. High voltage power source required.